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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,794	07/10/2003	Panayotis Andricacos	20140-00302-US /YOR920030	3511
30678	7590	02/08/2006	EXAMINER	
CONNOLLY BOVE LODGE & HUTZ LLP			KING, ROY V	
SUITE 800			ART UNIT	PAPER NUMBER
1990 M STREET NW				
WASHINGTON, DC 20036-3425			1742	

DATE MAILED: 02/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/615,794	ANDRICACOS ET AL.
	Examiner Nira S. Birenbaum, Ph.D.	Art Unit 1742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 13 December 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-14 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Status of the Claims

Claims 1-14 are currently under examination. Claim 1 has been amended according to the amendment filed on December 13, 2005.

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-5 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Seita *et al.* (US Patent No. 6,881,319).

The teachings of Seita *et al.* are described the previous office action. Furthermore, regarding the amendment to claim 1, Seita *et al.* teach determining the threshold concentration of an accelerator byproduct, or VFM (column 5, lines 64-67).

Claim Rejections - 35 USC § 103

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Seita *et al.* in view of Skoog *et al.* (*Fudamentals of Analytical Chemistry* 7th Ed.; Saunders College Publishing, Fort Worth, 1996, pp. 701-703 and 708-709), applied in the previous office action.

Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seita *et al.* in view of Talasek *et al.* (US 2004/0108213), as applied in the previous office action.

Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chalyt *et al.* (US Patent No. 6,749,739) in view of Blachier *et al.* (US Patent No. 6,749,739), as applied in the previous office action.

Claims 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seita *et al.* in view of Kopp (US Patent No. 6,083,374), as applied in the previous office action.

Response to Arguments

Applicant's arguments filed December 13, 2005 have been fully considered but they are not persuasive. Regarding applicant's argument that Seita *et al.* do not teach determining a threshold concentration of a VFM and that the accelerator by product disclosed by Seita *et al.* does not relate to void formation, the examiner refers to column 5, lines 64-67 of this reference. Seita *et al.* disclose that in order to obtain good via-filling properties, it is preferable to limit the concentration of the accelerator byproduct ($-X-S^-$) to $0.15 \mu\text{m/L}$ or less. Thus, Seita *et al.* teach that there exists a known threshold value for the $-X-S^-$ concentration, and that this value does relate to void formation. The step of determining this value is inherently applied.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nira S. Birenbaum, Ph.D. whose telephone number is (571) 272-8516. The examiner can normally be reached on M-F 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ROY KING
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700

nsb